

ENCLOSURE 4  
DANVILLE



Commonwealth of Virginia  
Department of Fire Programs

**ATTACHMENT A**  
**Burn Building Grant Application**  
**Construction, Renovation, or Repair**

<b>A. Applicant Information</b>	
1. Title of Jurisdiction Making Application (Check <input checked="" type="checkbox"/> only one, then make entry)	County of _____ City of <u>Danville, Virginia</u> Incorporated Town of _____
2. Employer Identification Number (EIN)	5 4 - - - 6 0 0 1 2 4 3
3. Principal Point of Contact	(Include salutation, name & title.) <u>David R. Eagle Fire Chief</u>
4. Mailing Address (Include zip code+4)  Identify COUNTY if appropriate →	<u>297 Bridge Street</u> <u>Danville, Virginia 24541</u>
5. Telephone Number	( 434 ) <u>799-5226</u>
6. FAX Number	( 434 ) <u>797-8943</u>
7. Internet e-mail address	<u>eagledr@ci.danville.va.us</u>
8. Application Scope (Check <input checked="" type="checkbox"/> only one)	<input type="checkbox"/> Sole Jurisdiction as identified in [A] <input checked="" type="checkbox"/> Multiple Jurisdictions - Complete [F]

<b>B. Facility Information</b> (Burn Building)	
The term "burn building" refers to an unoccupied structure. The purpose of the Burn Building is to provide live fire training to fire service personnel in support of Fire Fighter I and Fire Fighter II Training throughout the Commonwealth of Virginia.	
1. Current / Proposed Owner of Facility	(Party holding /to hold title to the property) <u>City of Danville/Pittsylvania County</u>
2. In-Service Date or Age of Structure	(Leave blank if NOT an existing structure as reported in [C1] below.) Date <u>03/22/02</u> <input type="checkbox"/> Unknown If unknown, enter approximate age in years
3. Address of Structure (If appropriate, identify COUNTY where located.)	<u>658 Stinson Drive</u> <u>Danville, Virginia 24541</u>
4. Will the renovation or repair bring the the burn building into compliance with the current standard of NFPA 1403, including appropriate NFPA 1403 signage? If no, explain in 6. Comments.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5. Will the construction of the burn building be in compliance with the current edition of Sections I through IV of the Summary of Burn Building Prop Grant Program as included in the VDFP Project Manual for Burn Building Props and the current standard of NFPA 1403? If no, explain in 6. Comments.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
6. Comments (pertaining to Facility)	<input type="checkbox"/> None <u>The City of Danville/ Pittsylvania County burn building is used annually for multiple certification and non-certification training. The renovation will bring the building into compliance set by The Structures Group, Inc.</u>

Department of Fire Programs

C. Facility Usage	
<b>1. Number of annual burns</b> (must be documented)  (for New construction, this figure is projected)	VDFP FFI burns <input type="text" value="3"/> (in compliance with NFPA 1403 standards)  VDFP FFII burns <input type="text" value="3"/> (in compliance with NFPA 1403 standards)  Other Burns <input type="text" value="20+"/> (specify types of burns)
<b>2. Travel to another facility</b>	Distance traveled to closest alternate facility <input type="text" value="32"/> (in miles)  Time traveled to closest alternate facility <input type="text" value="1"/> (rounded to whole hours)
<b>3. Other localities served</b> (list number of stations and number of firefighters served for each locality)  (for New construction, this figure is projected)  (if more than 5 localities are served, additional localities must be included on Additional Localities Served tab)	Name of Locality <input type="text" value="Pittsylvania County"/> Number of stations <input type="text" value="21"/> Number of Firefighters <input type="text" value="650"/>  Name of Locality <input type="text" value="Danville Fire Department"/> Number of stations <input type="text" value="7"/> Number of Firefighters <input type="text" value="121"/>  Name of Locality <input type="text" value="Goodyear Tire Fire Brigade"/> Number of stations <input type="text" value="1"/> Number of Firefighters <input type="text" value="30"/>  Name of Locality <input type="text" value="Progressive Energy"/> Number of stations <input type="text" value="1"/> Number of Firefighters <input type="text" value="30"/>  Name of Locality <input type="text"/> Number of stations <input type="text"/> Number of Firefighters <input type="text"/>  TOTAL NUMBER OF STATIONS SERVED (from above and add') <input type="text" value="30"/> TOTAL NUMBER OF FIREFIGHTERS SERVED (from above and add') <input type="text" value="831"/>
<b>4. Maintenance of facility</b>  (for New construction, skip Section C.4. Section E.2. MUST be completed)	Annual Maintenance Inspections <input type="text"/> Yes <input type="text"/> No (documentation of annual inspections MUST be provided with application for inspections conducted after 12/2007)  Previous Repair Projects <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (documentation MUST be provided with application for most recent repairs)

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D. Project Description	
1. Level of work proposed (Check <input checked="" type="checkbox"/> only one)	<input type="checkbox"/> NEW Construction where no such structure previously existed <input checked="" type="checkbox"/> RENOVIATION of an existing burn building or substantially similar structure <input type="checkbox"/> REPAIR of an existing burn building (up to \$10,000)
2. Type of Building (proposed or existing)	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Class A fuel  <input checked="" type="checkbox"/> Class B fuel         </div> <div> <input type="checkbox"/> Prototype I plans (brick, block, concrete)  <input type="checkbox"/> Prototype II plans (steel frame)  <input type="checkbox"/> Other*         </div> </div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1,400</div> Square Footage of Building (proposed or existing)  <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> Number of Burn Rooms on 1st floor         </div> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; display: inline-block;">1</div> Number of Burn Rooms on 2nd floor         </div> <p><b>For New Construction:</b>          *If building plans deviate from Prototype I or II, applicant MUST define building concept and include proposed plans with application.</p> <p><b>For Renovations or Repairs:</b>          *If building plans deviate from Prototype I or II, applicant MUST include copy of existing building plans with proposed renovations/repairs.</p>
3. Architectural and/or Engineering (A/E) (Check <input checked="" type="checkbox"/> only one for each)	Has an A/E study already been completed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable If so, is a copy attached to this application? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
4. Condemnation and/or fitness for use  (Leave [C4] blank if this application is for totally new construction; otherwise Check <input checked="" type="checkbox"/> only one for each statement.)	Is this structure still in use for certification of FFI and FFII at the time of application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, is there currently a scheduled date to remove the structure from service? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, enter the month & year: 09/30/2014 W/O Repairs If not presently in service, has this structure been condemned by a building official or other such entity legally empowered to do so? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable If yes, is a copy of such order attached to this application? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable

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<b>E. Financial Plan</b>	An estimated project budget must be attached to this application. For renovation/repair projects, contractor estimates must be attached.		
<b>1. Project Budget (Capital Expend)</b>			
<b>a. Expense</b>			
i. Estimated Cost of Construction (Enter or check <input checked="" type="checkbox"/> )	\$	-	<input type="checkbox"/> Unknown at time of application
ii. Estimated A/E Costs (Enter or check <input checked="" type="checkbox"/> )	\$	-	<input type="checkbox"/> Unknown at time of application
iii. Estimated Total Costs (Enter or check <input checked="" type="checkbox"/> )	\$	-	<input type="checkbox"/> Unknown at time of application
<b>b. Revenue</b>			
i. Grant Funding Being Requested New construction maximum \$430,000	\$	63,000.00	
ii. Matching / Cost Share Funds	\$	-	
iii. Source of Matching Funds (local contributions, donations, etc.)			
<b>2. Operating Budget (Maint. Expend)</b>			
a. Is there a financial agreement among partnering localities?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable
b. Is there a local budget for annual maintenance costs?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
c. Is there a local budget for annual inspection costs?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
d. Is there a local budget for 5-year inspection costs?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

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<b>F. Additional Parties of Interest</b>	Identify hereunder ALL jurisdictions (Not their Departments) otherwise participating in the proposed project. Attach additional sheets as may be required.
(Mark N/A and skip section [D] if not applicable - see [A.8])	
1. NON-Applicability	No parties other than the jurisdiction identified in [A] above.
2. Formal Agreement Among Parties	<p>Is there a formal agreement among parties with regard to the <b>proposed project</b>? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, is a copy attached to this application? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Is there a formal agreement among parties with regard to the <b>shared use of the facility</b>? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, is a copy attached to this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>

{ Reproduce and complete as many additional blocs as may be necessary for complete disclosure. }

2a. Complete <u>one each</u> for ALL other Parties of Interest	Number <u>2</u> of a total of <u>2</u> parties to proposed project (Count the LEAD Locality as #1, thereby start with #2.)										
2b. Title of Jurisdiction  (Check <input checked="" type="checkbox"/> only one, then make entry )	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>County of</td> <td>Pittsylvania County</td> </tr> <tr> <td><input type="checkbox"/></td> <td>City of</td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td>Incorporated Town of</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/>	County of	Pittsylvania County	<input type="checkbox"/>	City of		<input type="checkbox"/>	Incorporated Town of		
<input checked="" type="checkbox"/>	County of	Pittsylvania County									
<input type="checkbox"/>	City of										
<input type="checkbox"/>	Incorporated Town of										
2c. Employer Identification Number (EIN)	<table border="1"> <tr> <td>5</td><td>4</td><td></td><td>6</td><td>0</td><td>0</td><td>1</td><td>5</td><td>0</td><td>8</td> </tr> </table>	5	4		6	0	0	1	5	0	8
5	4		6	0	0	1	5	0	8		
2d. Principal Point of Contact	(Include salutation, name & title.) Otis Hawker										
2e. Mailing Address  Identify COUNTY if appropriate →	(Include zip code+4) P.O. Box 426 Chatham, Virginia 24531-3113 Pittsylvania County										
2f. Telephone Number	( 434 ) 432-7710										
2g. FAX Number	( 434 ) 432-7714										
2h. Internet e-mail address											

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**G. Electronic Transfer  
of Funds Information**

Note ☞ The completion of this section is optional at the time of application and will not hinder determination of eligibility, etc. However, if not provided and since funds will only be transferred electronically, disbursement will be delayed until this information is properly provided.

1. Account Ownership Information  
Employer Identification Number

5	4	---	6	0	0	1	2	4	3
---	---	-----	---	---	---	---	---	---	---

SSN may NOT be substituted.

Complete next three (3) entries ONLY if Name is different than ACCOUNT TITLE as it appears in [E2].

(Last, First, Initials)

NAME Eagle, David R.

(Telephone Number)

MAIN (434) 799-5228

(Telephone Number)

ALTERNATE \_\_\_\_\_

2. Direct Deposit Account Information  
(Check ☒ one Type of Account)

☒ Checking

☐ Savings

(9 digits)

ROUTING TRANSIT NUMBER 51401027

ACCOUNT NUMBER 1502880101

ACCOUNT TITLE City of Danville Deposit Account

FINANCIAL INSTITUTION American National Bank

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Note & This section of the application MUST be properly executed for the application to be complete. Certification may be completed by:

- City Manager /or/ Deputy
- County Administrator /or/ Deputy
- Town Manager /or/ Mayor
- Or other duly authorized official but only when the application is accompanied by a copy of an 'Ordinance' or other formal instrument clearly granting that party such authority.

Only completed applications can be acted upon.

## CERTIFICATION

This application is made on behalf of the jurisdiction above described [ A ] with the full knowledge and belief that all representations herein made are true and correct.

 Signature	<u>12/18/13</u> Date
Joseph C. King Printed Name	City Manager Title

( All applications must be notarized to be considered - incomplete forms shall be returned.)

State of Virginia }  
City /County of Danville }

On this 18th day of December (month) in 2013 (year), before me, the undersigned a Notary Public for the Commonwealth of Virginia, personally appeared Joseph C. King to me known ( or to me proved ) to be the identical person named herein and having in my presence executed the above, and acknowledged that he executed same as his voluntary act and deed.

My Commission expires: 2/20/15 Date Vicky L. Greener Notary Public 12/18/13 {Seal}

Department of Fire Programs

VICKY L. FARMER  
NOTARY PUBLIC  
Commonwealth of Virginia  
Reg. #199206  
My Commission Expires 2/20/15



*"A World Class Organization"*

**Danville Fire Department  
297 Bridge Street  
Danville, Virginia 24541**

**David R. Eagle, Fire Chief**  
**Telephone: (434) 799-5226**  
**Fax: (434) 797-8943**

The Danville/Pittsylvania County Regional Training Center is used for a diverse set of training evolutions for the members of Danville Fire Department, volunteer fire departments in Pittsylvania County, and industrial fire brigades throughout Southside Virginia and beyond. The building is used for its ability to handle certification burns for various Virginia Department of Fire Programs (VDFP) classes. However, it is also used by agencies for non-certification burns which are also required to meet the guidelines set forth in National Fire Protection Association (NFPA) 1403 while using this burn building.

Outside of actual live burns, the building is used for a wide array of other skill sets. Several forms of search and rescue training are regularly held in the facility. First, the building is used for firefighter survival training, such as the *Mayday! Firefighter Down Operations* and *Mayday Technician: RIT Company Operations* training classes offered through VDFP. It is also used for forcible entry and exit training to prepare members for various scenarios which they may encounter on a fire scene such as bars on windows and different types of door construction. Lastly, simple refresher training is held in the basics of using common search patterns and equipment such as thermal imaging cameras.

The building is also used for high-rise training. Employees are educated on how to properly connect to external fire department connections, connect to internal standpipe connections on various floors, and a stairwell which assists with their experience in hose handling techniques and carrying standardized equipment to the appropriate floor for use. Sprinkler training is also available for firefighters, allowing them to set-up their fire apparatus to support a sprinkler system as well as chocking various types of sprinkler heads.



The facility also serves as an excellent prop for ventilation exercises. It is able to handle vertical, horizontal, positive pressure, and hydraulic forms of ventilation. The structure also provides crews' with experience on setting up aerial apparatus. Firefighters can perform victim and firefighter rescue from various levels on each side of the building, thus challenging their knowledge, skills, and abilities.



Prepared for Danville Fire Department  
Chief Mike Jefferson  
August 16, 2013

Title  
City of Danville Fire Department and Pittsylvania County Repair Plan to Address the Repairs Required  
per the Five Year Inspection Report Supplied by the VDFP

Prepared by  
K.C. Sloneker  
SRG INC  
311 Court St. Danville VA 24541

**Danville Fire Department Burn Prop Repairs  
August 12, 2013**

To Battalion Chief Mike Jefferson  
Cc Lt. Delano Goad  
Cc. Christine Lopilato  
Ref. TSG Report VA1102-BB5

The following plan is for the repairs needed to mitigate the deficiencies outlined by The Structures Group (TSG) report based on the five year inspection. A staged plan is required as some time has passed since the report was delivered to Danville Fire Department (DFD) placing them in a deadline situation. In addition to changes in personnel the department lacked sufficient expertise to fully address the TSG report as related to the Virginia Fire Services Board (VFSB) burn building policy. A statement in the executive summary of the report was also inappropriately viewed as condoning the use of the building for live burn training before the repairs were undertaken. After clarification from Christine Lopilato of the Virginia Department of Fire Programs (VD FP) via phone conversation and the original letter outlining the required dates for repair it was then understood that this statement in the TSG report did not excuse the DFD from the required dates for repair as indicated by the VFSB. Based on those facts DVD has contracted with SRG Inc to develop and support a plan moving forward that provides a reasonable solution to accomplish the repairs without interrupting the fire training programs for the city fire fighters and the entire volunteer member staff from Pittsylvania County.

The plan is broken into three categories below and is primarily structured to address the critical repairs required to maintain training through Dec 31, 2013. The original deadline for the required repairs per the VD FP letter date May 22, 2012 was September 30, 2013.

A. Repairs listed in the Summary of Deficiencies Table from the TSG Report.

B. All other detailed repairs as listed in the TSG Report

C. Repairs not covered by the grant program, such as general maintenance, painting, etc.

Note 1: For convenience and clarity during discussion the three items are numbered but are not in order of priority or importance.

Note 2: Work groups A & C will include a report of work completion by the dates stated.

**Page A**

**Repairs listed in the Summary of Deficiencies Table from the TSG Report**

The following repairs will be made prior to conducting live fire training. The numbered items on this page correspond to the numbered items in the Summary of Deficiencies. The Summary of Deficiencies from the TSG report attached.

1. Remove rappelling anchor, treat and paint. Reinstall using new hardware.
2. Realign window and door latches, inspect all and replace corroded hardware.
3. Inspect and tighten all frame column/girder bolts.
4. Remove all timber training props from attic space.
5. Repair or replace kick plates on stairs as required.
6. Replace or rout and seal all damaged refractory tile in the burn rooms.
7. \*Spalls and floor cracks throughout building. This is listed as a Structural Integrity Issue and not a training or life safety issue. This repair will be addressed as part of the repairs listed on page B.
8. \*Place stairs on right side of building out of service until further review. This entry is not used for any live fire training.
9. Install missing signage.

Seven of the 9 items will be addressed at the owner's expense prior to conducting any further live fire training. The remaining two items, 7 & 8 will be addressed on page B.

**Page B**

**Revised 12/11/2013**

All other detailed repairs as listed in the TSG Report

A request for grant funding for these repairs by the Jan 1 2014 Deadline

1. Right elevation: Grind off form ties and plug, bonding agent 110 and Sika 223' filler.
2. Exterior Decking: Add 4 Ply 2x10 timber to reinforce deck span
3. Roof: Replace panels as needed, clean sand and apply appropriate roof coating.
4. \*Exterior Tower Stairs: Determine best solution for addressing the gap between the building and stairs. (From Page A item 8)
5. \*Concrete spalls cracks throughout building, repair with SIKA 222 & 223 ( From Page A item 7)
6. Wrap exposed beams outside of the burn room doors with Padginite.
7. Upgrade/renovate existing TMS and bring back to working order.
8. Install metal frame for attic entry and 2<sup>nd</sup> floor wall stud training.
9. Replace or repair damaged kick plate on tower roof.
10. Replace Rusted and deteriorated wall panels and floor channel near floor one interior stairs.
11. Clean, prep and paint, and or replace all structural beam anchor bolt nuts as required.
12. Add railing to pitched roof on main section of the building
13. Replace installed Smoke Generator on 2<sup>nd</sup> floor

Estimated Total Cost: 63,000.00

**Note,**

Some additional items have been added to the list above. The building does currently have roof hatches that can be used for training exercises; but there are currently no railings on the roof. A roof railing should be installed according to A&E plans.

An independent structural inspection identified a rusted supporting wall section near the first floor interior stairs. This section should be replaced.

The upstairs smoke generator has failed and been repaired previously. Due to the age of the equipment replacement is needed. This is the originally installed system.

**Page C**

Repairs not covered by the grant program, such as general maintenance, painting, etc. Work will be completed prior to Dec 31, 2013

1. Railings, Clean prep and paint throughout building interior and exterior as required.
2. Clean prep and paint blower cowlings on gas props.
3. Clean prep and paint exterior gas valve cabinets
4. General preventative maintenance service of gas props, not including needed repairs or parts.

# SUMMARY OF DEFICIENCIES

Virginia Department of FIRE Programs/Danville Burn Building Prop  
Code Edition: 2007 NFPA 1402 & 1403

Legend	
SI	Structural Integrity
TS	Training Safety
LS	Life Safety

ITEM NO	DESCRIPTION	DEFICIENCY TYPE	NFPA CODE SECTION	Remarks
1	Loose and rusted bolts securing steel pipe rappelling apparatus to drill tower roof	TS	1403 7.2.7	Deteriorated connections have the potential to fail while the apparatus is in use, resulting in a danger to personnel in training.
2	Several door and window latches were loose, corroded or misaligned preventing them from operating	TS	1403 5.2.3	Failure of doors/windows to operate correctly during training can result in training safety concerns during times when emergency egress was required.
3	Loose bolt at connection between steel attic main frame column and roof girder	SI	1403 5.2.2	This connection should be tightened to prevent water pressure or other movement from causing it to work free, dislodge and fail during training.
4	Timber training props are present within the attic space and not comprised of fire retardant treated materials	TS	1403 5.3.6	The presence of these combustible materials can present a hazard during burn operations in the event of possible fire spread.
5	Bent metal kick plates on both the second floor burn building prop stairs and the attached drill tower stairs	TS	1403 5.2.7	Presents a trip hazard as well as an edge upon which clothing and equipment can catch during training.
6	Cracks in Padgenite thermal lining panels in first and second floor burn rooms	SV/LS	1403 5.2.4.4.1	Cracked tiles may conceal unknown ceiling or wall structural conditions that may present a danger to personnel during training.
7	Spalls and cracks in concrete foundation walls, first floor wall curbs, and floor slabs	SI	1403 5.2.2	This is a structural integrity issue to prevent water infiltration and freeze/thaw cycles from expanding cracks and permitting moisture to reach and corrode reinforcing steel.
8	Concrete stair separating from rear elevation wall of burn building prop	TS	1403 5.2.11.6	This condition presents trainees with irregular steps and a tripping hazard.



**SUMMARY OF DEFICIENCIES**  
**Virginia Department of FIRE Programs/Danville Burn Building Prop**  
**Code Edition: 2007 NFPA 1402 & 1403**

Legend	
SI	Structural Integrity
TS	Training Safety
LS	Life Safety

ITEM NO	DESCRIPTION	DEFICIENCY TYPE	NFPA CODE SECTION	Remarks
9	Missing/Incorrect Signage	TS	-	The absence of signage denoting proper training criteria, or the presence of incorrect signage can result in injury or death of personnel during training

